AUG 14 1898

collected by P. A. Rydberg, during the summer of 1891, mostly in Western Nebraska.

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RANUNCULACEAE.

- 1. Clematis liqusticifolia, Mutt. Climbing over bushes; common in Western Nebraska, rare in the eastern part of the state. It was collected by me, in 1889, in Saunders Oo. Canon, south of Pumkin Seed Valley, July 10; McColligan Canon, D.Co.#), Aug. 22.
- 2. Ansmone cylindrica, Gray Prairies, throughout the state. Platte River Bottom in Kearney Co., June 15.
- 3. Thalictrum purpurascens L. -- Near water. -Platte Bottom, Kearney Co., June 15; Little Medicine Creek, Frontier Co., June 22.
- 4. Ranunculus circinatus, Sibth. In water. It is not contained in Mr. Herbert J. Webber, s Catalogue of the Flora of Nebraska, - In Lodge Pole Creek, near Lodge Pole, Ch. Co., Aug. 29. 5, Ranunculus Cymbalaria, Pursh-In springs and creeks in Western Nebraska. - Pumpkin Seed Creek, B.Co., July 17; Spring in Pleasant Valley, S.B.Co., July 28; Horse Creek, Aug. 1.
- 6. Ranunculus sceleratus L.-In water, rare. Horse Creek, S.B.Co. Aug. 1; Lodge Pole Creek near Sidney, Ch. Co., Aug. 19.
- 7. Ranunculus hispidus, Hook. New to the Region, and, perhaps, new to the United States. In the revised edition of Gray's Maenual the locality is given thus: "On the northern shore of Lake Superior, and north and westward; probably in N. Minn. "- Only a few specimens were collected on an irrigated meadow, north of Kimball, K.Co., Aug. 12. When collecting it, I took it for /a form of R. repens or of R. pensylvanicus, luxuriant because of the irorigation.
- the type in being lower, in having the stem glandular hairy up to 🏨 the raceme, and the leaves often with broader segments. On the hills north of Lawrence Fork, B. Co., July 9.

PAPAVERACEAE.

9. Argemone platyceras, Link .- Sandy soil; common throughout the Region. - Sand-draw in Deuel Co. June 28.

FUMARIACEAE.

10. Corydelis curvisiliqua, Eng. - I collected a few specimens of what I regard as belonging to this species among bushes in Lawrence Fork, July 8. The outer petals are wing-crested, the seeds are shining to the naked eye; but finely muricate under the lens.

Cruciferae.

11. Draba Carolina, Walt .- var. micrantha, Gray. In fruit only; on high prairie land in Deuel Co., June 27.

12. Arabis Holboellii, Hornem. - A few specimens collected in Pumpkin Seed Valley, B. Co., July 14, and one in Kiwa Valley, July 28. New to Mebraska.

- Ch. Co. = Cheyenne Co.; B. Co. - Banner Co.; K.Co. = Thinball Co.

= Brassica Sinaputrum Bois.

14. (Sinapis oryonsis L.) Throughout the state. - Rail road bank,
Kearney Co. June 15.

Seed Valley, July 17.

- 15. Brysim un cheirantoides L. -- Rail woad bank, Kearney Co. June
- i6. paysimum asperum, D.C. -- Hills of Western Nebraska. -- Deuel Co., June 25; Rush Cresk, July 2; South of Scott's Bluff, July 23.
- 16. Masturtium obtusum, Nutt. -- Not in Mr. Webber's Catalogue. Un-usually low specimens, collected on the sands of South Platte River, near Big Springs, D.Co., Aug. 25.
- 19. Nasturtium palustre Nutt. -- In Water. -Platte River, Kearney Co., Juhe 15; Horse Creek, S.B. Co. #), Aug. 1, Lodge Pole, near Kimbell, Aug. 12.
- sinuatum, if it hade not been to like the specimens of M. curvisiliqua, Nutt. from Colorado in the Merbarium of the University. -It is new to Nebraska. A few specimens were collected near a well
 1 1/2 mile from the Wyoming line, July 31.
- 21. Masturtium sinustum, Nutt. -- Not in Mr. Webber's Catalogue. --Platte River, Kearney Co., June 15.
- 22. Lesquerella Engelmannii, (Grav) Wats. -- New to Nebraska. It was first collected by Mr. J. Flouman, who took it for a small form of Physaria, on the hills of the Upper Lawrence Fork, K. Co. #), Aug. 11.
 - 23. Lesquerella Ludoviciana D.C. -- It is not uncommon on the hills of Western Nebraska, and usually branched from the root. -- D.Co. June 25; B.Cc./ July 9; S.B.Co., Aug. 24.
 - 24. Physaria didymocarpa, Gray. -- Not in Mr. Webber's Catalogue. -- Gollect d on ly in fruit in canons south of Scott's Bluff. The specimens differ considerably from tose in the Herbarium of the University of Nebraska, being of twice the size or more, the cells of the pod not being spherical, but obovate, diverging at the top, &c. July 22.

CAPPARIDACEAE.

25. Polanisia trachysperma T.&G. -- Common in sand-draws throughout the Region. -- D. Co., June 27 & Aug. 24; B. Co., July 8; K. Co. -, Aug. 12.

26. Cleome integrifolia T.& G. -- Common in Western Nebraska. - Upper Pumpkin Seed Valley, B. Co., July 17; Kimball, Aug. 13.

/ D. Co = Devel Co; - Ch. Eo. = Cheyenne Co; B. Co. = Banner Co. - K. Co = Kimball Co. S. B. Co. = Scott's Dluff Co.

27. Cleome angustifolia, Torr, -- South Platte Bottom, near Julesburg, Col. August 24. VIOLACEAE. 28. Viola Nuttallii, Pursh. - In fruit only, on the hillsides, among stones. - Rush Creek, D. Co., July 2; Scott's Bluff, July 20. Polygalaceae. 29. Polygala alba, Nutt. - Sand-hills of Phelps Co., June 18; Hills of McColligan Canon, D.Co., August 22; Scott's Bluff, July 22. CARYOPHYLLACEAE. 30. Arenaria Franklinii, Dougl. var. minor, Hook. & Arn. -- Hills south of Pumpkin Seed Valley, July 6 & 14. linii and A. pungens are described as having the about equalling the calyx. In the specimens collected on Court House Rock, Ch. Co., July 4, and on the hills, of Scott's Bluff, July 23, the petals are nearly 1/2 longer. Dough, ven. mimor Hook & fra. 32. Arenaria sp. Very low and cushioned, 1-2 inches high; cyme 1 in., few-flowered, generally 1-flowered; leaves about 3 lines long. It is perhaps a dwarfed variety of A. Franklinii .-ills of the Lawrence Fork, B. Co., July 8. PORTULACCACEAR. Portulacca oleracea, Eng. -- Seen on the bank of U. P. R. R. between Potter and Sidney, Chilo. 33. Talinum teretifolium, Pursh. -- Sand-hills of Kearney Co. June13. MALVACEAE. 34. callirrhoe involucrata, Gray. -- On sandy soil in KearneyCo, Jaly June 13. 350 Callirrhoe alcaeoides, Gray. -- Together with the preceding. -36. Malvastrum coccineum. Gray. -- Hills and prairies: DeuelCo., June 25; Scott's Blumf, July 21; Potter, August 14. LINACEAE. 37. Linum rigidum, Pursh. -- Hills: Phelps Co., June 18; Kearney Co., June 15; Lawrence Fork, B. Co., July 9. CELASTRACEAE. 38. Celastrus scandens, L. -- Islands in Platte River, Kearney Co., June 15. VTACTAE. Vitis riparia, Michx. -- Thoughout Nebraska; in the west in canons. 39. Ampelopsis quinc lefolia, Michx. - As preceding. -- Lawrence Fork July 9. SAPINDACEAE. 40. Negundo aceroides, Moench. - Throughout Nebraska; in the western part, only in canons, near springs. Hackberry Springs, B.Co., July 11.

AMACAFDIACTAN.

41. Rings Toxicodeminor, L. -- On the sides of the bills and in earons

- 40. Pros Canadencia, Karsi. var. trilobata, Gray. -- Hills and company, thoughout the West. Accordings Camen, D. Co., June 34.
- 43. Thermoresis Phombifolia; Nass. Sond-draws. In fruit, Rush Creek, J. Co., July 2.
- Jane 20; south of Dir, Ch.Co., August 15.
- 45. Lapinus argentous, Pursh. var. decumbens, Wats. -- Fill-Sides Conons. - Lawrence Pork, July 10: Hackberry Springs; July 11: Cedux Vally, July 1:

43. Lapinus publilus, Parse - Pills: Frontier Co., mear Cartis, June 20: Deal Co. June 35.

Hosackia i siina, Finh. Tour-viri, Phelps C., Junil; same diam, hecollism cama, h., Austria, A., Austria, L. & Liver Borrow, A. & C., Austria, C., A

notes on the Pseraless of Mebraska, which I submitted to Dr. Britton of Columbia College, New York, together with specimens. From the material in the Herbarium of the University of Mebrasks and in my own collections, I believed that we had two distinct species (or , at least, two well marked varieties) under the name Ps. tenuities, Firsh. (Ps. floribunds, Unit.), one from eastern Nebraska, which I called Ps. floribunds, one from western Nebraska, for which I reserved the name Ps. temuiflors, Pursh. I made the following distinction:

Ps.floribands; racomes dense, 3-5 in.; stem camescent, under the lens hirsate; leaflets generally 5, oblong, 1 to 1 1/2 inch; glands on the lower side of the leaves and on the callyx hidden by the hairs; tests of the callyx lance-ovate, the lower longer; flowers nearly 3 lines; standard orbicular, notched.

Ps. florebunds; recesses few-florered, only 1-3 in.; bracks of ten with a single flore; stem minutely conscent; leaflets 5, oblong-lanceolate, 1/2-5/4 in., planely junctate; calvx panetate, colored;

testh squal; florors 2 lines; standard ovate. Dr. Dribson remarks that he had concluded that Ps. flerib inda could not go un-noticed into Ps. tenuiflora; but recommended to put another season's field work on it, which I have done. The conclusions to whice I have come, is that they below to one species. Allapedimens seen in the West fit my description of Ps. Janiflere, except that the length of the leaflets and of the recemes are a little lunger on more low and fortile soil. Specimens collected on the Preiries of Phelps Co. (48b) are intermediate between the two, having some of the leaves 5-foliate, longer; the racemes longer; and more hairy louves and calyx; but the general appearance of them differs more from our esstern various than from our western. Our eastern, more robust, more silky plant, of which I have no specimens proserved (There are several good specimens in the Herbarium of the \$ Herbertem of University.), I still believe has a good right to be separated as a well marked vario y. As the western form sceme to have been the type of Mr. Pursh's description of Ps. tenuiflars and

- 51. <u>Psoralea campostris, Nutt</u>.-Sand-hills, Kearney Co., June 15; In sand, Lawrence Fork, B.Co., July 9.
- 52. <u>Psoralea hypogaea, Nutt</u>. Hills, Deuel Co. Only 3 specimens found on June 26.

Psoralea esculenta, Pursh. is found throughout Nebraska.

- 53. Psoralea lanceolata, Pursh. Sand-hills, Kearney Co., Faly June 15; Sand-draws, Lawrence Fork, B.Co., July 9.
 - 54. Dalea alepecuroides, Willd .- Platte Bottom, Kearney Co., Aug. 29.
 - 55. palea laxiflora, Purst. McColligan Canon, D. Co., August 22.
- 56. Aurea, T.& G. Mills, Scoot's Bluff, August 6; McColligan Canon, August 22.
- 57. <u>Petalostemon candidus</u>, Michx. Eastern and central Nebraska; common. Platte Bottom, Kearney Co., August 29.
- 58. Petalostemon candidus, a forma collected this plant, last year, in Deuel Co. In my notes I placed it near P. gracile. Dr Britton states that it is contained in the Pringle's Collection under the name Petalostemon candidus, var. occidentalis, Gray, and that he can not find any description of the same. He consider it as P. gracile or a variety of i., or a near related species. I am more inclined to refer it to P. gracile than to P. candidus, although it seems to be a connecting link. It is often postrate, most commonly decumbent, sometimes ascending, rarely nearly upright (58b). The leaves are from obovate to nearly linkar, obtuse, generally less than 1/2 in. long, but in one wright variety (58b), from the Platte Bottom in Scott's Bluff Co., much longer. This Petalostemon differs from P. candidus, Michx. in the following poits: The stem is documbent, seldom nearly upright; the bracts are ovate with a slender point, about equalling the cal-yx and deciduous (in P. candidus Heyarg longer than the calyx, and, as far as I know, persistant), leaflets obtuse (in P. candidus generally acute). From P. gracile, it differs in a stronger groth, by being more leafy, by its broader leaves, and by the length of its spikes, which become lax in fruit, and, perhaps, by the stronger nerves on the calyx. Smaller, narrower led leaved and short spiked specimens (58c) can hardly be distinguished from P. gracile in the Herbaroum of the University. The full description of this Petalost mon is as follows:

Stem decumbent, rarely nearly upricht, glabrous, striate or slightly angled; leaflets, 1-2 pairs, obovate-obling, some times nearly linear, 2-6 lines (rarely, nearly 1 in.), punctate beneath; spikes To. Lille Yours alba, Lan. - Platte Bottom, near Kearney City, August 29. 56. Astrandus carvocarpus, Ker. -- Prairies, Chroudhe a Mebraska. menal Co., June 25. 67. Espregalus mollissimus, Torr. - Common vist-vari en prairies.-Road-side, Mearney Co., June 15. 68. Astregalus Cenadensis, L. - Throng Fout Embreska. - Laurence Fork, E.Co., Italy 2. 09. Astranalus edaurgons, Pall. - Sandy soil in the West. - NeCollige an Camon, D. Co., Jan Di; Jamenca Pora, D.C., July a; Scott's 31 aff, July 20. W. Astronal a recomments, Purch - Mills: Near Curtis, Prontier Co., June 22. V1. Astragal a gracilis, butt. - Iills and prairies in western Febras -Ma. -Curtis, Frontier Co., Jone 3M; Lawrence Pork, P.Co., July . 72. Istregal as microlobus, Gray. - Cultivated soil; not as common as the preceding. - Denel Co., June 20; Chevanne Co., August 10. 73. Astropalus Masouriensis, Nait. - There is in the Furbartum of the University only one specimen under this name, but that belongs undersboly not to a. Missouriensis, but to A. Shortianus, Nutt. - -Tills: Cartis, Trontier Co., Jame 20; North of Kimball, K. Co., Aug. 10. Cotiflorus The flirf pubentinium is purple-white.

14. ASTRESIUS PROMISSIUS PROMISSIUS GRANGES - I am in noubt it the determination of this species is correct or re-. There are n specimens in the terbarian of the University to com-pare it with, the description of A. pubentissimus is rather brief, and, besides, Astragalus is a very polymorphus genus; where for I would not be much sumprised, if these specimens should belong to another species. I add more a short description: Plant apparently annual, low, 2-5 in., branched from the root, silk? camescent; leaflets, 2 pairs, ovel-obovets; raceme 2-4-flowerdd, ofton very shorte and the flowers sceningly sessile in the axils of the leaves; flowers ocholeweers, tinged with pumple; ped one-celled membranous, overce obling, curved upward. Canon in Cosper Co.; Hillshear Cursis, Frontier Co., June 22; Lawrence Fork, B.Cc., July O; Mills south of Kimball, August 10. 75. Astragalus pictus, Gray, var. filifolius, Gray. - In fruit. - -Hills north of Freeport, B.Co., July 14; Wild Cat Mountains, B.Co., J11/10. 76. Astragalus pecuinatus, Pougl. - In fruit; preiries near Gering, D.B.Co., July Bland in Pleasant Walley, S.B.Co., July 89. 77. Astragalus multiflorus, Oray. - Near a spring in Pleasant Valley on July 29. 76. Astrogalis casspitosus, Gray. - In all Flowering specimens I collected, the racemes were few-flowered and about of the length of the leaves. - Rocks, Deuel Co.: me- McColligan Canon, June 26; Wild Cat Mountains, B. Co., July 16. 79. Astragal is Kentrophyta, Gray. - Court Fouse Rock, Ch. Co., July

4; Hills of Lawrence Fork, B.Co., July 10; Wild Cat Mountains, B.Co., July 16; Scott's Bluff, July 22. 80. Astragalus triphyllus, Pursh. - Hills throughout western Nebraska. - Scott's Bluff, July 22; Kiwa Valley, S.B.Co., July 27; Upper Lawrence Fork, K. Co., August 10. 81. Astragalus sericoleucus, Gray. - Gravelly hills. - In fruit only: Deuel Co., June 25. is very cespitose from a much branched, perennial caudex; leaves about 2 in., 2-3-paired, silky villoss; leaf-lets oblong lanceolate, acute; Pods (fallen among the leaves) 3-4", oval, membranous, onecelled, enclosed in the silky calyx; stipules oval, adnate to the petiole. - - In fruit, on the hills of Upper Lawrence Fork, K. Co., August 10. 82. Oxytropis Lamberti/, Pursh. - A very variable species. On the prairies, the spike is generally higher (7-10 in.) and laxer (82a). and the plant simpler. On the hills, the stem is generally more tufted, the spike lower (4-6 in.) and more dense (82b). On the barren hills near Rush Creek, D. Co., I found some specimens of a form, undoubtly belonging here. the plant (82c) is low, leaves shorter, with narrowleaflets, hir-sute rather than silky; pods 1/2 in. long, purplish, tipped with a 1/2 inch long, straight, only at the end curved tip. - (82a) Kearney Co., June 15; (82b) Hills south of Pumkin Seed Creek, July 6; (82c) Hills near Rush Creek, D.Co. July 2. 83. Oxytropis Lambertii, Pursh. var. sericea, Gray. - In fruit, on the hills near Rush Creek, D. Co., July 2, and in bloom at Scott's Bluff, July 24. The Sott's Bluff specimens (83b) are remarkable for the si ze of the flowers and of the leaflets (some 1.1/2 in.long), and for the peculiar bluish hue. 84. Desmodium Canadense, D.C. - In fruit on the Platte Bottom, near Kearney City, August 29. 85. Vica Americana, Muhl. var. linearis, Wats. - Common throughout Nebraska; - Scott's Bluff, July 24. 86. Lathyrus ornatus, Nutt. - Prairies, throughout Nebraska. - Kearney Co., June 13; Gosper Co., June 20; Scott's Bluff, July 24. 87. Strophostyles pauciflorus, (Benth.) Wats. - In Gray's Manual, He leaflets and the pods are said to be 1 inch long. In the specimens gathered on the sands of Platte River, near Horse Creek, S.B. Co., both are about 1 1/2 in. long. In Coulter's Manual, it is not ginen at all. 88. Desmanthus brachylobus, Benth. - Platte Bottom, near Kearney City, August 29. 89. Schrankia uncinata, Willd. - Hill-sides and canons in Gosper Co. near Bertrand, June 20. ROSACEAE. 90. Prunus demissa, Walp. - Hills and canons: Gosper Co., June 20; Curtis, Frontier Co., June 22; Lawrence Fork, B.Co., July 8.

- albicants Dougle I do not know, whether to refer it to M. albicaulis or to M. dispersa, Wats. The leaves are lanced-late or even ovate, entire or rarely sinuately toothed; the seeds are obtusely angled, and finely and muricate. Horth side of Scotts Bluff, about 5,800 feet above the sea, July 23.
 - 122. Mentzelia ornata, T. A. G. Canons, Scott's Bluff, July 24.
- 123. Mentzelia nuda, T. & G. This plant has been collected, for several years, and from different localities in Nebraska. It has been named II. ornata and II. laevicaulis; on one hana, because the callyx is bracteolate, on the other hand, because it is often found open in the after-noon. All Hebraska specimens I have seen, as well in collections as in the field, have the calyx bracteolate; and I would have regarded them as be-longing to a distinct species, hade not Mr. Porter in the Flora of Colorado made the statement, that ii. nuda has bracteolate calyx. The only specimens that come near to the description of M. nuda in this respect, are those stunted ones, collected by me on the hills of Upper Lawrence Fork, N.Co. 7 August 10 (125b); but even in these are the bracks present, although only one or two, small and linear. In these are the pods also unusually short .-- Canons and sand-draws: Lawrence Fork, B. Co., July 10; Wild Cat Mountains, B. Co., July 18, Hiwa Valley, S. B. Co., July 28; McColligan Canon, D. Co., August 22:

CUCURBITACIAE.

229.#) Queurbita foctidissima, E. R. E. - Lawrence Fork, B. Co., July 9.

CACTACEAL.

Manmilari vivipara, Haw. - It was collected on the sand-hills of Kearney Co., but only one specimen was preserved, and is deposited in the Ferbarium of the University.

- 124. Opuntia Missouriensis, D.C. Platte Bottom, Pholps Co., June 18.
- 125. Opuntia rutila, Nutt. New to Nebraska. It was collected on the prairies of Deuel Co., June 27. A yellow-flowered v riety(125b) was growing togethet with the purple one.
- 173. Opuntia fragilis, How. Prairies: Deucl Co/, June 27.

UNBILLIBURAL.

- 17. Massnium tenuifolium, Nutt. There is no doubt in my mind that this is M. tenuifolium, Nutt., although the flowers are yellow. In whithering, they become light straw-coler, which, undoubtly, made Mr. Muttall believe that they had been white. The fruit is of the Musenium type. It must be referred to this genus, even if it is not M. tenuifolium, Nutt. It is common on the hills of Banner and Scott's Bluff Counties, and on Court House Rock, Ch. Co. It gave a good illustration of what influence the altitude has on the time of flowering. On July 4, we collected on Court Youse Rock, specimens in well developed fruit, but only one specimenwas found in flower. Nearly ammonth later, on July 28, we found it in full bloom on the hills of Pleasant Valley, between 40 and 50 miles further west, and only 300 or 400 feet higher above the sea.
- 100. Berula angustifolia, Noch. Springs: Lawrence Fork, B.Co., July 2) This number was left out in the manuscript, and inserted afterward

10; Kiwa Valley, S.B. Co., July 28.

Percedemum Kingi Wolson

129. Resudocumenters enisatus, coarter & Ross. Collected for the first time in Nebraska. The rays are sometimes more than twelve, a and the fruit over 3 lines long. - Scott's Bluff, in the Pass, July 22.

- 130 Cymopterus montanis, T. & C. Door-yard, Deuel Co., June 27.
- 131. Cicuta maculata, L. Platte Bottom, Koarney Co., June 15; -- cott's Bluff, July 20.

COPHACIME.

182. Cornus stolenifers, Michx. Low land: Platte Bottom, Hearney Co., June 15; Canon, Riva Valley, S.B.C., July 28.

CAPRIFOLIACEAE.

133. Symphoricarpos occidentalis, Hook. - The style is oft n in this species slightly bearded, a fact that Rev. Bates of Valentine has called my attention to. - Lawrence Fork, B. Co., July 8, and near idney, August 19.

RUBIACHAR.

134. Calium borcaleção - Canon, north of Pumpkin Good Valley, B.Co., & July 11; Wild Cat Mountains, B.Co., July 16; Spring, Fleasant Valley, S.R.Co., July 29.

COLPUSTIAN.

- 135. Vernonia fasciculata, Michx. Platte Bottom, Big Spring, D. Co., August 24.
- 136. Kuhnia cupstorioi es,L. var. corymbulosa,T. A. G. Carter Canf. on, S.D.Co., July 25.
- Hobraska, by me in 1890. It was seen in several new localities this summer, Canon south of Lawrence Pork, B. Co., July 10; Scott's Bluff, July 22.
 - 138. <u>Listris punctata, Hook</u>. Throughout Nebraska. Scott's Bluff, August 5; McCollimn Canon, D. Co., August 22.
 - 139. Listris spicata, Willd. My specimens relike L. pycnostachya Mich. therin that the bract are colored, but they are obtuse and appressed asin L. spicata, the flowers are about 10 in each head. Platte Bottom, West of Scott's Bluff, August 3. It is not reported for Mebraska before, and it is not given in Coulter's Manual.
 - 140. Gutierrezia Buthamias, T.& G. ery variable; nearly every locality has its own form. Canons, near Scott's Bluff, July 27; Prairie, near Horse Creek, August 1.
 - 141. <u>Grindelia squarrosa, Dunal</u>. The specimens seen in Western Nebrska had un-usually thin leaves. Carter Canon, S.B. Co., July 25; Horse Creek, August 1.
- mination of this is correct, oring to the lack of good material,

- and to the fact that there are no specimens of A. armerioides, or of any related species, in the Herbartum of the University. A. armerioides is not recorded for Nebreska . hills, south of Breport, B.Co., July).
- lected only one specime, in 1800; but this year I found that it is very comon in Banner, Scott's Bluff, Cound Kimball Counties. Hills, south of Ero-port, B. co., J. ly 1; fild Cat Ho ntains, July 18; Topic Laurence Pork, H. Co., Arrest 11.
- 144. Applopappie spin locus, P.C. Prairies, common Kosmer Co., June 15; Tild Cat Hountains, P.C., July 10; Typer Le Trace Pork, K. Co., Guenst 11.
- 146/ Crysopsis villars, Putt. Common. Punkin Good Valley, July 14; Kiwa Valley, July 28.
- 147. Grysopsis villosa, Mutt. var. hispida, Gray. Sand: Lawrence Fork, S. Co., July 10; Some of the specimens from the hills/south of Funckin Seed Valley, July 11, seem to be between this and var.ericoides.
- 149. Orysopsis villosa, Nutt, var. canoscons, Gray. McColligan Canon, L.Co., August 22; Lawrence Fork, E.Co., July 8; Lills, north of Platte River, E.B.Co., August 5.
- 149. Crysopsis villosa, Natt. var. sossiliflora, Gray. Collected for the first time in Febraska. Sand-draw, D. Co., August 34.
- north of Friport, B.Go., July 14 (not in blocm); outh of Scott's Bluff, July 24.
 - 151. Bigelovia graveolens v_r glabrata, Gray. J-7 feet high bush. Canon, east of Scott's Bluff, July 21 and August 6.
 - 152. Solidago Hissouriensis, Mutt. It is very variable; saveral forms were collected: a. Kiwa Valley, S.B. Co., July 28; McColligan Canon, D. Co., August 22; b. Cedar Valley, S.B. Co., July 25; c. Kiwh ball, August 12.
 - 153. Solidago Missouriensis, Putt. var. I lave given this a separate number, because it differs con-siderably from the type. The panicle/is unusually narrow; the bracts few, long, thin, and papery margined. Near Scott's Bluff. July 25.
 - leaves this, lanceolate to nearly linear; stem very slender; panicle small, narrow, achence somewhat silky. Canon, Kiwa Valley, S.B. Co., July 27.
 - 15). Solidago Canadonsis, L. Common; Platte River, west of Scott's Bluff, August 3.
 - 156. Solidago serotina, Ait. (?) This is perhaps only a smoth variety of M. Canadensis. Platte River, north of Scott's Bluff, July25.
 - 157. Solidago nemeralio, Ait. var. incana, Gray. - Common in the West. Hills: near Kimball, August 12; in Kiwa Valley, S.B. Co., July 28.

- near to S. nemoralia; but the leaves are eliptic obline to obovare, entire or slight-ly toothed, very scabrous; panicle narrow, leafy, the branches short and nearly upright. It seems to connect S. nemoralisand the "GLUAT RULLA FLORAR". - Mills, near Lodge Pole, Ch. Co., August 19.
- 159. Golidago lanceoleta, L. Throughout Hebraska. Platte River, Big Springs, D. Co., August 24. Solidago rigida was seen at several places, but not in bloom.
- 160. Townsendia grandiflora, Mutt. Hills of Western Nebraska: North of Pumpkin Feed Valley, B. Co., July 6.
- 161. Aster communatus, T. S. J. The heads of some of the specimens are rather small, but con/tain over 20 rays. - Mear water: Carter Canon, S.E. Go., July 25; Lodge Pole Creek, near Kimball, August 12; Sand-draw in Deuel Co., August 24.
- 162. Astor adscendens, Lindl. (?) I am in doubt if the letermination of this and of the following is correct. - Lodge Pole Creek, near Kimball, August 12.
 - 163. Aster FremontijGray. Horse Creek, S. T. 60., August 1.
- 164. Aster Tradescantii, -Platte Bottom, Big Spring, D. Go., Aug. 24.
- 160. Aster foliaceus, Lindl .- Platte, north of Scott's Bluff, July 23; Morse Creek, S.B.Co., August 1; Lodge Pole Creek, near Kimball, August 12.
- 166. Aster ericaefolius, Rothrock. Prairies: Venango, Perkins Co., June 23.
- 167. Aster tanacetifolius, F.B.K. Common in the West. Scott's Bluff, July 23.
- 168. Erigeron pumilys, Mutt. My specimens are unusually large. lills: Deuel Co., June 27; Lavronce Fork, B. Co., July 10.
- The have no Herry they have 169. Erigeron canus, Gray, - Not uncommon, McColligan Canon, D.Co., June 25; Scott's Bluff, July 22.
 - 170/ Erigeron divergens, T.& G. Scott's Bluff, July 22.
 - 171. Brigoron strigosus, Bull. Sand-hills, Kearney Co., June 15.
- 172. Briggron Canadensis, J. Not very comon in the West. Canon, Kiwa Valley, S.B. Go., July 28.
- 173. Antennaria plantaginifolia, Nook. A un sually slender and small laeved form from Pumpkin Seed Valley, B.Co., July 13.
- 174. Iva ciliata, Willd. Platte, Kearney City, August 29.
- 175. Iva axillaris, Pursh. Not in Mr. Webber's Catalogue, Near Pla Platte River, F. B. Co., July 23.
 - 176. Iva Xanthifolia, Mutt. Scott's Bluff, July 24.
 - 177. Ambrosia, b-- trifida, L. var. integrifolia, T. & G. Rare

- Mastern Nebraska, but more common than the type/in the West. Sanddraw, near Potter, Ch. Co., August 15.
- 178. Ambrosia psilostachya, D.C. Rare in Bastern Nebraska, but more/commen in the western part of the state. Sand-draw, near Potter, Ch. Co., August 15.
- 179. Franseria Hookeriana, Nutt. It is not given in Mr. Webber's Catalogue of the Flora of Nebraska. Seemingly, it was collected for the first time in Nebraska this year. Maybe, it has been overlooked on account of its likeness to Ambrosia Psilostachya and A. sitemisaefolia. - Sand-draw, near Potter, Ch. Co., August 15.
- 180. Franssia discolor, Nutt. There is no record at the Universitty, that it has been collected in Tebraska, except that it is given for the state in the Synoptical Flora, and, consequently also in Coulter's Manual: Valley, 6 miles south of Dix, Kimball Co., Aug. 14.
- 181. Franscria tomentosa, Gray. It has not been reported for Webra-Tska before, although it already begins to become a trouble-some weed in Kearney Co., Especially on low, rich soil - Near Axtell, August 29.
- 182. Lepachys columnaris, T. & G. Throughout Nebraska. Cedar Valley, S. B. Co., July 18.
- 18%. Lepachys columnaris, ". & c var. pulcherrime, ". & . Varies with brown rays: Cedar Valley, D.B.Co., July 18; and with purplish rays: Scott's Bluff, July 22.
- 184. Helianthus annus, L. var. Small specimens, in appearance wery like H. petiolaris. - Near Mimball, August 12.
 - 185. Relignthus petiolaris, Mutt. Prairies, Kimball, August 12.
- 186. Helianthus rigidus, Desf. + Throughout Hebraska on the hills. Upper Lawrence Fork, K. Co., August 10.
- 187. Helianthus Maximiliani, Schader. Platte Bottom, Kearney City, August 29.
- 188. Helianthus Maximiliani, Schador, var. ... This is undoubtly H. Maximiliani, althoughtle lower part of the stem is smoth. The rays are golden yellow, and the paleae are long, lanceolate. It may be a broad leaved and hairy variety of I. Muttallii, which I have never seen. - Platte River, near Horse Creek, S.B. Co., August 1.
- 189. Coreopsis tinctoria, Nutt. + Upper Lawrence Fork, K. Co., August 10.
- 190. Bidens cernua, L. var. Alow, discoid form, with nearly entire leaves, large outer involuere and hardly nodding head. - Sands of South Platte Piver, Julesburg, Colorado, August 28.
- 191. Bidens Chrysanthemoides, Mich. var. . . . This is the B. chrysanthemoides of several Nebraska collectors and of L.F. Ward from Colorado. In many respects, it does not agreewith the description of G. B. chrysanthemoides in Gray's und Coulter's Manuals. The outer involucrdis longer than the inner, sometimes very foliaceous; the rays are only about 1/2 longer than the inner bracts, eval, about 1/2 in. long, golden yellow; leaves mather sharply serrate, a

little conste; heads little modding, if at all. Bidens cermua is common in Bastern Mebraska, especially the discoid form. When well Mevelloped, it always has nodding heads, with large bracts. The on ly (in my opinion) true B. chrysanthemoides I have seen in Nebraska was collected by me, in 1889, in a creek near Wahoo. It had comparatively short outer bracts, broadly oblong rays, about 1 inch long; thicker, nearly entire, well consid leaves, and more glaucous aspect. I would, maybe, have taken no.191 for a hybrid of the two, if they had been growing together; but I did not see any other Bidens than this and B. frondosa in all whole Western Nebraska. - Upper Lawrence Fork, K.Co., August 10; Lodge Pole, Ch. Co., August 19. 192. Thelesperma filifolium, Gray. - Collected in Rebraska for the first time, by me in 1890. The rootis annual, biennial, seemingly also perennial; but there is no creeping rootstock. The divisions of the leaves are sometimes broader than the rachis. + Prairies: Deuel Co., June 25; Rush Creek, July 2; Sidney, Ch. Co., August 19. 103. Thelesperma gracile, Gray. - Common in Western Mebraska, McColligan Canon, D. Co., June 26; ills in Banner Co., August July 11. 194. Nymenopappus tonuifolius, Pursh. vel. . - I believe that this belongs to H. tenuifolius, although the corolla is light yollow, and not white. I would have named it H. flavescens, Gray., but for the range and for the achenes, which are long villose .- Sandhills of Phelps Co., June 18. 195. Hymenopappus sp. - I do not know where to refer this, the most common Lymenopappus of Western Nobraska. It seems to be between H. tennifolius and H. filifolius. The stems are generally several, clustered from a perennial candex, slonder, 12-10 in.high, with few stem-leaves, but not scapiform. The heads are small, hardly 4 lines; the bracts with yellowish tips; the corollas are generally bright yellow. - Hillsa and canons: between Lawrence Fork and Pumpkin Seed Valley, B. Co., July 6; Wild Cat Mountains, July 16; Maybe, it is H. luteus of Muttall. 196. Actinella acaulis, Nutt. - In the Synoptical Flora, and also in Coulter's Manual, this species is said to have the-reys 3-5 in. long rays, which is, un-doubtly a missprint, not corrected in the reprint. - Hills of the West, common. - McColligan Canon, D. Co., June 26; Rush Creek, July 2; Scott's Bluff, July 24. 197. Helenium autummale, L. - Platte Bottom, S.B.Co., July 24. S.B.Ca 198. Bahia oppositifolia, Nutt. - Salt marsh, nearthe Wyoming line. July 31. 199. Chaenactis Douglasii, Hook. & Arn. var. alpina, Gray. (??) - As there are no flowers, and the fruits found consist of 3 incompleted achenes, I am in doubt if the determination is right. There are no specimens in the Herbarium of the University. The general appearance, the receptacle and the involucre seemed to indicate that the plant belonged to HFLEHIOIDEAE, and the involute bracts made me suppose that it belonged to Chaenactis. The plant is new to Mebraska It was first notice by Mr. J. Flodman on the hills of Upper Laurence Fork, K.Co., August 10. 200. Dysodia chrysanthemoides, Lag. - Throughout Nebraska, common. -Prairie, near Horse Creek, S. B. Co., August 1. 201. P

- 201. <u>Pectis angustifolia</u>, <u>Torr. Collected for the first time in-H-Nebraska</u>, in 1890. Sand-draw in Deuel CO., June 27 and August 21.
 - 202. Achilles Millefolium, L. Prairie, Kiwa Valley, July 28.
- 203. Artemisia Canadensis, Michx. Hills of Westrn Hebraska: Kiwa Valley, S.B.CO., July 28; Potter, Ch.Co., August 15; Sand-draw in Deucl Co., August 24.
- 204. Artemisia dracunculoides, Pursh. Throughout Nebraska. McColligan Canon, D. Co., August 22.
 - 205. Artemisia biennis, Willd .- Sand, Potter, C. Co., August 15.
- 206. Artemisia filifolia, Torr. Sandy soil in Western Nebraska. -- NcColligan Canon, D. Co., August 22.
 - 207. Artemisia frigida, Willd. Hills, Lawrence Fork, D. Co., July 10
- 208. Artemisia Ludoviciana, Nutt. Throughout Mebraska, common. -- Hills: Magle Nest, S.B.Co., July 28; South of Kimball, August 13. -- 208b. is a slender variety with smaller leaves; not in bloom, although collected at the same time as the other form, August 13.
- 209. Artemisia cana, Pursh. Not in bloom yet. Camon in Kiwa Valley, S. B. Co., July 28.
- 211. Senecio aureus, L. var. Platte, Kearney Co., Aug. June 15; Chevenne Co., July 3.
 - 212. Senecio Douglasii, D.C. Valleys: Lawrence Fork, B.C., July 10
- 213. Chicus Pitcheri, Torr. Prairies: Kearney Co., June 25; Hills of Banner Co., July 6; Scott's Bluff, July 24.
 - 214. Cnicus, ochrocentrus, Gray. Prairie; Kimball, August 12.
- 215. Cnicus undulatus, Gray. I woyld have taken the preceding for a variety of this, had it not been blooming about a moth later. }?

 Mills between Lawrence Fork and Pumpkin Seed Valley, July 26; Curtis, Frontier Co., June 22; Deuel Co., July 25.
- 216. Cnicus altissimus, Willd. var. filipendulum, Gray. Platte Valate, near Horse Creek, S. B. Co., August 2.
- 217. <u>Grepis runcinata, 7.6 G.- Platte Bottom</u>, Ch.Co., July 3; Pump-kin Seed Valley, B.Co., July 14.
- 218. Lactuca Ludoviciana, D.C. Lawrence Fork, July 10; Mitchel Valley, S.B.Co., August 4.
- 219. Stephanomeria minor, Nutt. I would have referred to S. runci nata, Nutt., but the pappus is plumose to the base. Bad Lands, north of Scott's Bluff? July 22. It is easily taken for a Lygodesmia.

18

220. Lygodesmia juncea, Don. - Unisually large specimens from a canon north of Freeport, R. Co., July 15.

221. - See page 11.

Lobeliaceae.

222. Lobelia spicata, Lam. - Platte Bottom, S.B.Co., August 3.

CAMPANULACEAE.

223. Campanula rotundifolia, L. - Carter Canon, S. B. Co., July 25.

PRIMULACEAE.

224. Dodscantheon headia, L. - Only in fruit. - Garter Gener, S. B. Ge., Platte Bottom, Ch. Co., July 3.

OLHACHAT.

225. Fraxinus pubescens, Lam. - Pare in Nebraska, especially in the western part of the state. We saw a fer trees in a gorge, on Little Medicine Creek, near Curtis, Frontier Co., June 22, and also a few at Fackberry Springs, B.Co., July 10. One at the latter place measured over 7 feet in circumference.

Fraxinus viridis, Michx. f., is common throughout Nebraska. It was

seen at several places, but no specimens were collected.

APOCYNACHAE.

226. Apocynum cannabinum, L. - Hills in Kerney Co., June 13; Scotts Bluff, July 22.

ASCLEPTADACHAE.

- 227. Asclepias speciosa, Torr. Sand-draw, D.Co., June 25; La rence Fork, B.Co., July 8.
- 228. Asclepias arenaria, Torr. In budds: Sand-hills, Kearney Co., June 13; Sand-draw, D. Co., in fruit, August 23.
- 229. Asclepias verticillata, L. var. pumila, Grav. Sandy places. -- Lawrence Fork, B. Co., July 8.
- 230. Acerates auriculata, Eng. It is very likely to be confounded with Asclepias stemphylla, Gray, which grows on the sandhills of-Ku Kearney Co. The form of the hood and of the the auricles, and the absence of the horn in Acerates auriculata, are the on-ly characters that separates the two. It was collected by me for the first time in Nebruska, in 1890. McColligan Canon, D. Co., June 26; Scott's Bluff, July 24; Sand-draw, near Kimball, August 12; Canon in Banner Co., Addits 8.
- 231. Acerates viridifolia, Ell. Hills, north of Lawrence Fork, B. Co July 10.
- 232. Acerates viridifolia, Ell. var. lanceolata, Grav. Hills, north of Lawrence Fork, B.Co., July 10.

GENTIANACHAE.

- 233. Trythraea Douglasii, Gray. New to Nebraska. Sands of Platte River, near Horse Creek, August 1; and west of Scott's Bluff, Aug. 3/
 - 234. Pustoma Russellianum, Griseb. Platte Bottom, near Horse Crock S.B.Co., August 1; Lodge Pole Crock, near Kimball, August 12.
 - 235. Phlox musecides, Nutt. No flowers were found, and only a few specimens in fruit. There are no specimens of this or of 2. bryodedes in the Herbariam of the University. I have never seen any of them, but the likeness of the capsule of this and of the next, made me believe it to be a Phlox. I named it F. muscoides, although the leaves are plainly quadrifarious. It was first collected by Mr. J.H. Flodman. Hills of Upper Lawrence Fork, K. Co., August 10.
 - 236. Phlox Hoodii, Richards. It was seen in several places in Ranner and Scott's Bluff Counties, but out of bloom. The only specimens in flowers wre found on rocky hills in Pleasant Valley, S.B.Conear the Wyoming line, on July 30. It has also been reported from N.W. Kebraska.
 - 257. Phlox caespitess, Mutt. var. rigida, Gray. (?) Plants were seen on the Wild Cat Mountains, but then taken for a glabrate form of the preceding, until one specimen in bloom was collected on a hill, south of Scott's Bluuf, July 26, and another in Kiwa Valley, July 29. The leaves are without cobwebby hairs, accrose, 2-3 long, at last spreading; corolla blue or white; lobes obovate, entire; tabe longer than the calyx, which is a little cobwebby. It is new to Nebraska.

 - 239. Phlox Douglasii, Hook. var. longifolia, Gray. Valley near Rush Creek, D.Co., July 2.
- 240. Gilia linearis, (Nutt.) Gray. New to Nebraska. Sand-draw in Deuel Co., June 25.
 - 241. Gilia gracilis, Hook. Also new to the state. In the same locality as the preceding, June 25.
 - 242. Gilia longiflora, Don. Sand-hills of Kearney Co., August 29,
- 243. Gilia pungens, Benth. var. caespitosa, Gray. It is given in Coulter's Manual for Scott's Bluff, Wyoming. I found it common on Vild Cat Mountains and on the hills of Scott's Bluff Co., especially on Scott's Bluff, Nebraska. It is not given in Webber's Catalogue. Scott's Bluuf, July 25; Hills in Kiwa Valley, S. P. Co. July 29
- of this in the Herbarium of the University of Nebraska. Hills north of Lawrence Fork, B. Co., July 6 and 10%
 - 245. Gilia iberidifolia, Renth. Cliffs and canons of Ranner and

Scott's Bluff Co. - Wild Cat Mountains, B. Co., July 16; Scott's Bluff July 26.

July 26.

primatified Natt., flor reds agree of But in The order nong from flower shoulder the state of at each of transhes, while her they one more equally 246. Gilia sp. - Glandalar pubescent; root biennial or, distributed may be, perennial, stem branched, about 1 foot high or higher; leavelong the es somewhat irregularly pinnatifid; lobes linear, not wider than ratherly the rachis, somewhat fleshy, mucronate; flowers in a branched pani-the elem, cle; corolla violet or blue with a white tube, somewhat funnol form, of the cle; corolla violet or blue with a white tube, somewhat funnol form, of the lines long; stamens excerted; ealve with prominent ribs. It may be a variety of G. pinnatifida, which I have never soon. The corolla, however, is smaller than in the description and not strictly salverform. It is not to the state. - Sands of Platte Fiver near Horse Crock, S.B.Co., Algust 1.

BONDAGIMACEAU.

- 248. Heliotropium currasivicum, L. Wet meadow, saline soil in Pumpkin Seed Valley, B. Co., July 16.
- 249. Echinospermum floribundum, Lehm. It is not given in Webber's Catalogue; but was collected, in 1890, by Mr. T.A. Williams in War Bonnet Canon in N. W. Nebraska. A new locality was found, this summer, July 9, in the plum-thick to in Lawrence Fork, B. Co.
 - 250. Echinospermum Redowskii, Lehm. var. occidentale, Watson, Foor-yard, Phelps Co., June 18.
 - 251. Fchinospermum Redowskii, Lehm. var cupulatum, Gray. Prairie, Venango, Perkins Co., June 23.
 - 252. Krynitzkia crassis pala, Grav. Sandy prairies, especially where the sod has been disturbed, as in prairie-dog towns. Deuel Co., June 25.
- 253. Krynitzkia Fendleri, Gray. It is not given in Webber's Catalogue, but was afterwards collected in 1890, by Rev. Bates of Valentine, Neb. Wild Cat Mts, B. Co., July 17.
- It was collected by me, in 1890. San'y prairies: Deuel Co., June 25; Wild Cat Mts., July 16; Lawrence Fork, B. Co., July 8.
 - 255. Krynitzkia glomerata, Gray. Rocky hills: McColligan Canon, D. Co., June 26; Rush Creek, D. Co., July 2; Lawrence Fork, B. Co., July 9; Scott's Bluff, July 24.

This has narrower leaves, and normal fruit that specimens in Herb, Late lobes, coralla lobes (rounded, entire), and corolla lube are of about equal length. It seems to a form of this species 256. Krynitzkia sericea, Gray. (?) - As no specimens in flowers were seen, It might, perhaps, be K. fulvocanescens. Neither of the two is given in Webber's Catalogue. - Cliffs: McColligan Canon, D. Co., June 26; Upper Lawrence Fork, K. Co., August 10.

- 257. Mertensia lanceolata, D.C. In fruit, among bushes in Lawrence Fork, P.Co., July 8.
 - 258. Lithospermum hirtum, Lehm. Sand-hills of Kearney Co., June 15.
- 259. Lithospermum angustifolium, Michx. var. . . It was collected only in fruit. It is very low and much branched; but is, undoubtlu, nothing but a stunted form of L. angustifolium. Prairies, Venango, Perkins Co., June 23.
 - 260. Onosmodium Carolinianum, D.C. Prairies, Kearney Co., June 13.

CONVOLVILLACIAM.

- 261. Ipomaea leptophylla, Torr. Prairies of Western Nebraska. - Lawrence Fork, B. Co., July 8.
- 262. Convolvulus sepium, L. Road-side, east of Potter, Ch. Co. Aug. 17.
- 263. Evolvulus argenteus, Pursh. Sand-hills, Kearney Co., June 10; Sand-draw, Deuel Co., June 25.
- indexorm blowy A form quite free from populae.

 264. Cuscuta sp. . . . I do not know to which this should be referred. I at first took it for C. Gronovii, Willd., but the capsule is depressed globular, which would associate it with C. arvensis and C. tenuiflora. It differes from the former therein that the flewers are flower-clusters are more or less cymose, not dense, and from the latter in being more slender, and in having a broadly campanulate corolla with spreading lobes. More slender specimens resemble somewhat C. Californica; but the lobes of the corolla are obtuse. On Chenopodium and Polygonum, and occasionally on Heliantus annus and Psoralea lanceolata. Canon in Kiwa Valley, S.B.Co., July 29.

Consenta Inonovii Wills is also found in The Western netraska but I did not collect any specimens, as I did not find it in bloom.

- 26). Solanum triflorum, Nutt. This, Krynitzkia crassisepala, and Munroa sqarrosa frequent the prairie dog towns. Lawrence Fork, B. Co., July 8.
 - 266. Solanum nigrum, L. McColligan Canon, D. Co., August 22.
- 267. Solanum rostratum, Dunal. It is becoming more and more common eastward, and in some places even a troublesome weed. Broken soil, Deuel Co., July 1.
- 268. Physalis Virginiana, Mill. Rail road banks, Kearney Co., June 15; and Curtis, Frontier Co., June 22.
- 269. Physalis mollis, Mutt. var. cinerascens, Gray. The species of hysalis are very perplexing, especially those of Western Nebraska, In Eastern Nebraska, I have collected 3, viz. P. angulata, Virginiana, and lanceolata. All agree well with the descriptions in the Synoptical Flora. P. lanceolata var. laevigata, Gray., is also given in Webber's Catalogue, but I have not seen any specimens from Eastern Nebraska. In Western Nebraska I have collected 5 different

forms (species or varieties), which have given me more or less trouble. In fact, I do not know to which to refer them. The first I bave referred to P. mollis, Putt. var. cinerascens, Gray. It is very similar to the specimens in the Merbarium of the University. The leaves are broadly ovate, 2 in. long, angulately toothed or repand, very thin; pubescence stellate or simple (even a little glandular), very short, except on the calyathe pedicels, the peticles, and the younger parts of the stem, where it is long and soft; peticles as a long as the leaves or longer; corolla greenish yellow with darker spots; anthers vellow; fruiting calya globose evate.—Not collected in the state before. — Under the cliffs on the south side of Scots Bluff, July 20.

— mearett hederaform from, but out of range for it.

270. Physalis sp. - It is very like the preceding and likely only a variety of the same species as it. The leaves, however are smaller, scarsely over 1 inch long, thickish; petioles generally shorter than the blades; flowers not seen; fruiting calyx globose, about 1 inch. It is more erect than the preceding; the pubescence is shorter, and the long hairs very few. The general appearance is like that of P. Fendleri in the Herbarium of the University of Hebraska, but the pubescence of my specimens is not microscopically minute. - Prairie near Ashford, R.Co., August 8.

271. Physalis sp. . . . This is also, very likely, only a variety of the same species as the two preceding. The general habit is between the two. The leaves are thicker and shorter petioled than in No. 270, and longer than in No. 271. Fruiting ealyx exate about 1 inch; stem low and nearly prostrate. The pubescence is more glandular, and the strong scent is perceived at a distance of several rods. It seems to be a connecting form between the "Mollist group and P. Palmeri. - Sandy banks of a draw, south of Sidney, Ch. Co., August 18.

272. Physalis longifolia, Nutt - I collected this and the following last year, and sent some specimens to Dr. Wattson, who said that both belong to P. lanceolata, and that this is the variety laevigata, Gray. For my part, I believe that it has full right to a specific rank, as I have not seen any intermediate forms. If this is P. lanceolata var. laevigata, Gray., I would ded to the caracters in the Synoptical Flora: Berry yellow, stalked in the calyx; this ovato, less angled, and not Sunken at the base; bottom of the calyx, stipe, and lower part of the berry very glutinous, as if they were painted with molasses? It is these caracters that make me believe it to be distinct, hence I named it with Nuttall's name, P. longing folia. - Lawrence Fork, R.Co., July 8; Mear Longe Pole Crock, Kimball, August 12.

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No. Problem And the spiritual of the spi

- The first when the part, but the four of the tensor for and for the first of the fi
- 177. Lagradian granifilo de Pauloro, Moderna 160., ima la
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- Webber's Catalogue.
- July 10.
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 - 201. Aphyllon Lucevicianum, Grav. ven. Flant dack brown

flowers ark purple. - On the roots of Opuntia Missouriensis(?) - Prairies, north of Kimball, August 12.

LABIATEAE.

- 292. Teucrium occidentale, Gray. Spring near Horse Creek, S.B.Co., August 1.
- 293. Mentha Canadensis, L. Lawrence Fork, B.Co., July 11; Horse & Creek, S. P. Co., August 1.
- 294. Lycopus lucidus, Turcz. var. Americanus, Gray. Pumpkin Seed Creek, B.Co., Auly 18.
- 295. Lycopus sinuatus, Ell. In Nebraska it is often stoloniferous. Lawrence Fork, B. Co., July 11.
 - 293. Hedeoma hispida, Pursh. Sand-draw, Deuel Co., June 27.
- 297. <u>Hedeoma Drummondii</u>, Benth. Common in the western part of the state. Court House Rock, Ch. Co., July 4; Canon near Lawrence Fork, B.Co., July 8; Scott's Bluff, July 24.
- 299. Salvia lanceolata, Willd. Hill, Curtis, Frontier Co., June 22
- 299. Monarda fistulosa, L. Canon in Banner Co., July 6.
- 300. Monarda fistulosa, L. var. mollis, Benth. Lawrence Fork, B.CO, July 2: Prairie in Kiwa Valley, S.B.Co., July 29.
- 301. Mornarda citriodora, Cerv. The specimens I collected does not fully agree with the description in the Synoptical Flora. The flowers are white, except a spot on the lower lip, which is yellow and sprinkled with minute brown purple spots. The bracts are greenish, not whitened nor purplish; but with strong ribs. Low prairies, Rush Creek, B.Co., July 2; Lawrence Fork, B.Co., July 3.
- 302. Scutellaria galericulata, L. Spring near Horse Creek, S.B.Co., August 1. It is not given in Webber's Catalogie.
- 203. Physostegia parviflora, Nutt. Collected for the first time in the state. Spring near Horse Creek , S.B.Co., August 1.
- PLANTAGINACEAR.

 304. Plantago SP. Tt stands very near P. eriopoda, Torr has a mass of brownish hairs at the crown, but not so copious as in the named species. The ovules are one pair in each cell or sometimes more; leaves oval lanceolate-linear lanceolate, gradually tapering into a margined petiole, with this 4-8 in. long, rather thinish; spike 8-18 in. long, on its upper half many flowered and sparse in the manner of P. Rugellii; capsule, as in this, when well developed, twice the length of the calyx, circumscissile much below the middle.— It was collected by Rev. Bates of Valentine, in 1890. He named it P. lanceolata, and remarked that he believed it to be indigenious. It, certainly, does not belong to P. lanceolata. If not a variety of P. eriopoda, it is very near to it.— Platte Bottom, Kearney Co., June 15; Pumpkin Seed Valley, B.Co., July 19.— The first locality was shown to me by Dr. Hapeman of Minden.
 - 305. Plantago Patagonica, Jacq. var. gnaphalioides, Gray. Hills,

Kearney Co., June 15; Prairie, near Venango, Gesper Perkins Co., June 23.

VERBLINACTAL.

- 306. Lippia caneifolia, Steud. The peduncles are generally a little longer than the leaves, and the stems are sometimes rooting at the nodes. Sandy prairies: Phelps Co., June 18; Kiwa Valley, S.B.Co., July 29.
- TYCTACINACEAE.

 Z07. Oxybaphus nyctasineus, Sweet. var. oblongifolius, Gray. Hill, of Bouck Go., July 10.
- 308. Oxybaphus angustifolius, Sweet. Hills: Scott's Bluff, July 24; Kimball, August 12.
- 309. A.bronie franzans, Nutt. Vallevs: Rush Creek, D. Co., July 2; Lawrence Fork, B. Co., July 8.

 Abronia mismutha! mit 339.

ILLEGEBRACEAF.

310. Paronychia Jamosii, T.& G., Barron hills: Denol Co., Juno 25; Scott's Bluff, July 24.

FIGUIDEAF.

- Mollingo verilicillet., I. Sand-draw, Doubl Co., August 24.

 Mat in Webbero Cataloguer. This plant shows a good varietal difference in the smaller seeds, which moreover lack all but two of the six or more coiled vidges on their surface of those of the species. J. ll. H. Teb. 27, 1892,

 AMARANTACTAT.
- 312. Amarantus blitoides, Watson. Cultivated soil: Rush Creek, July 2; Kiwa Valley, S.B.Co., July 29.
- 313. Amarantus sp. Stem prostrate, terete, and succulent; lerves as those of A. plitoides, but not as rigid; sepals are stamens 5; Maybe, it belongs to A. Torreyi, Benth., which I have not seen. In a canon, east of Scott's Bluff, July 24, and on broken land in Pleasant Valley, S.B.Co., July 30. At the latter station, it has become a somewhat troublesome weed. It has received the name "Mountain Purslane." In drying, the succulent becomes wrinkled, and looks as furrowed, as in A. blitoides, Which it then resembles very much. New to Hebraska.
 - 314. Froelichia Floridana, Mog. Sand-hills, Kearney Co. & August 29.
- 315. Froelichia gracilis, Roq. Leaves oblong lanceolate, mostly radical; calyx, in fruit, with a fe-w sharp tubercles, or nearly even. Not reported for Nebraska. Sand-draw, Deuel Co., August 24.

CHENOPODIACEAE.

- Chico, July 3; Kiwa Valley, S. B. Co., July 30.
- 317. Chenopodium Fremontii, Watson. var. incanum, Wats. Not in Webbber's Catalogue. Sandy places: Lawrence Fork, B. Co., July 8; Kiwa Valley, S. E. Co., August 1.
- 318. Chenglodium leptophyllum, Matt. Common in Kearney Co., and in the West. A worse weed than C. album. Kearney Co., June 13.

- in the West. A worse weed than C. album. Kearney Co., June 15.
- Broken soil, Deadl Cox, July 2.
 - 320. Chenopodium leptophyllum, Nutt. var. subglabrum, Wats. Tis as well as the preceding is not in Webber's Catalogue. It seems to be very distinct from the true C. leptophyllum. Hillsides: Scott's Fluff, July 24.

Plant about 2 feet high, slender, branched, nearly destitute of mealyness, except on the calyx, which is very small and carinate; leaves thin very thin, 3-ribbed, 1 1/2-2 in. long, broadly triangular hastate-ovate lanceolate, entire or slightly toothed, mucronate; flowers in very small clusters on the slender branches; seeds easily separated from the pericarp. - Canon in Barner Gov., July 1, in

- 392. Chenopodium album, L. Common. Carter Canon, together with the last, July 26.
- ne 27. Mot in Webbers Catalogue.
- 324. Atriplex patula, L. var. hastata, Gray. Saline soil, near Horse Creek, S.B.Co., August 1.
- 325. Atriplex argentes, Nutt. It is not given in Webber's Catalogue, but was collected by me, in 1890, in the salt basine near Lincoln. - Saline soil in Kiwa Valley, S. 3. Co., July 28.
 - 326. Atriplex Nuttallii, Watson. Canon, east of Scott's Bluff, July 24; Kiwa Valley, S. 2. Co., July 51.
 - 327/ Burotia lanata, Mog. Hillsides: Lawrence Fork, B. Co., July M; Scott's Bluff, July 26.
 - 328. Copiospermum hyssopifolium, L. Canon, east of Scott's Bluff, July 24.
 - Greans Ell. van salsa BSP.

 329. Suaeda diffuse Marcon. Saline meadows: Pumpkin Seed Valley, B.Co., July 15; Horse Creek, S.B.Co., August 1.

PULYGUNAC AT.

- 330. Eriogonum alatum, Torr. Hills: McColligan Canon, D.Co., June 26; Lawrence Fork, B.Co., July 8; Big Horn, B.Co. August 8.
- 331. Friogonum flavom, Nutt. Cliffs: McColligan Canon, D.Co., June 26; Rush Creek, July 2; Opper Lawrence Fork, K.Co. August 10.

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- 382. Eriogen un annuum, Nutt. Common in Western Nebraska, on hills and prairies. Lawrence Fork, B.Co., July 8; Pumpkin Seed Valley, B.Co., July 14; Kiwa Valley, S.B.Co., July 28; Sidney, Ch.Co. Aug. 18.
- 13.2. <u>Priogonum cornuum</u>, Mutt. This species was collected for the first time in Nebraska, in 1790, by me on a hill in Banner Co., but the specimens were to immature for identification. This year, I have found several new localities. In fact, it is not uncommon in the West. Court House Rock, Ch. Co., July 4; Wild Cat Mts., B. Co. July 16; Scott's Bluff, July 22; Kimball, Aug. 13; Sidney, Aug. 15.
- Sat. Friegon an multiceps, Nees. Cort House Rock, Ch. Co., July 4; Se Scott's Bluff, July 35. It sometimes various with long pericels; Fills south of Scott's Bluff, August 4. (284b).
- 333. Eriogon im microthocum, Natt. var. ... This, and also the next, differs from the specimens in the Harbarium of the University of Nebraska, in that in my specimens the nerves of the involuce are barely seen, the leaves are broader, scarsely revolute, and se scarsely glabrate on the upper side. Prairies in Kiva Valley, S. 8.Co., July 28.
- 336. Eriogonum microthecum, Natt. va. effasam, T.& G. Leaves broador, not revolute; seem repeately trichotomously and diffusely branched. - North of Kimball, August 12; Not in Webber's Catalogue.
- 337. Eriogonum correbosum, Bonth. It is not given in Webber's Catalogue, and is not in the Herbarium of the University. Prairies: Kimball, August 12; Potter, Ch. Co., July 15.
- Nebraska, this year. Hills in the Kiva Valley, S. B. Co., July 200229.
- Co., June 20; Court House Rock, Ch. Co., July 4. Mith 339 There was one theet of
 - 340. Primex saficifolias, Weinman. Sands of Platte, near Horse Creek, S.B.Co., August 1.

 - 342. Pamex maritimus, L. Sands of Platte, near Horse Greek, S. R. Co. August 1.
 - 343. Polygonim exection, L. (?). Unisually large and decumbent specimens, growing in water, in lodge Pole Grock, near Sidney, August 10.
 - Fariculare L. vav. parva! = Col Wright's N. Mex(1851) = More larry (Oregon) Dallar branched, low, prostrate, Texas plant, branchless spright with very short joints, nearly covered by the cheaths, which are brownat the base; the scarious tips long and loose, soon lacerate, leaves e owded, oblong, 2-3 lines long, deciden-

- ous; flowers minite, redish or brownish; seeds shining. It agrees well with the description of P. minimum, Wats. or still better world. that of P. Torreyi, Wats., but neither is reported from as far east as Nebraska. It, maybe, is but a small variety of P. aviculare. The locality indicates, however, that it, without any doubt, indigenious. Near a spring, in Deuel Co., August 24.
- 545. Polygon an ramosissimum, Michx. Very variable. Sand-draw, D.Co., August 24; Lawrence Fork, B.Co., July 7; Carber canon, S.B.Co. Jaly 26.
- 340. Polygonum tente, Michx. Hills in Banner Co., July 10.
- 34%. Polygonum lapatifolium, L. Lodge Pole Creek, nual Kimball, August 12.
- 348. Polygonim lapatifolium, L. var. incan im, Koch. Lawrence Fork, B.Co., July S.
- 349. Polygomum Mahlenbergii, Wats. Platte River, near Horse Creek, S.B.Co., August 1; Lodge Pole Greek, near Kimball, August 12.
- 350. Polygonum Convolvulus, L. Rail Road bank, near Kimball, Aug. 12.
- 331. Polygonum dumeterum, L. var. scandens, Gray. The wings of the fruits of nearly all my specimens are more or less lobed. - McColligan Canon, D. Co., August 26. Elaengmaceae;
- 352. Shephordia argentea, Nutt. In fruit, on the islands in Platte River, near Gering, S.B. 60%, July 34.

FUPRORBIACEAR.

- 305. Emphorbia petaloidea, Eng. Variable; leaves from linear to broadly oblong; appendages from oval oblong to nearly triangular. mad small; seeds from gray to reddish .- Sand-draw, Deuel Co. June 25 & August 24; Scott's Bluff, July 22; Kiwa Valley, July 30; McColliganCanon, D. Co., August 22.
- 354. Emphorbia serpyllifolia, Pers. Rail road bank, Curtis, Frontior Co., June 22; Kiwa Valley, S.B. Co., July 30
- 306. Euphorbia glyptosperma, Eng. Lawrence Fork, B. Co. July S; Kiwa Valley, S.B. Cor, July 28; Sands of platte, near Horse Creek, August 1; McColligan Canon, D.Co., August 22; Sands of South Platte, Big Springs, August 25.
- 1807 Milifolia Pos.

 356. Fuphorbia T. It is near to P. serpyllifolia & P. glyptosperma; upright, much branched; leaves linear oblong, a 11 little oblique at the caneate base, short petioled, serrate at the apex, about 1/2 in. long; peduncles axillary, leafy clusters; pods angled; seds oblong, brownish, 1-angled, minutely wrinkled or pitted. The general appearance is somewhat like that of P. glyptosperma, from which it differs in the seeds.)- Cultivated soil, 6 miles south of Pooter Ch. Co. August 13.
- Euphorbia maculata, L. The leaves are unusually broad as in E. huministrata, and the involucre silky; the seeds oblong, sharply angled, with about 4 blunt ridges. - Upper Lawrence Fork, August 12.

- 358. Euphorbia Fendleri, T. & G. Collected for the first time in Nebraska, by me in 1890. Upper Lawrence Fork, N. Co., August 12.
- 359. Euphorbia hexagona, Nutt. In sand, common. Lawrenc Fork, B. Co., July 8; McColligan Canon, D. Co., August 22; Sand-draw, D. Co., August 24.
 - 360. Euphorbia marginat , Pursh. Mear Sidney, Ch. Co., August 16.
- 361. Euphorbia sp. cuptosperma, Boissi). All specimens I collected last year were smooth, wherefore III not believed that they belonged to E. dentata. As the seeds are not ovate-globular, but a covate pyramidal, more or less 3-4-angled, obliquely truncate at, the base, grooved on the shorter side, and rather prominently tuberculated; so I named it E. cuphusperma, although this has only been collected at the Maxican Boundery. All specimens collected this year, at the same station, are more or less hairy, and the leaves broad a and more dentate. It is undoubtly nearly related to E. dentata, if not a variety of it. The leaves are linear or linear lanceulate, seldem broader, slightly dentate, and somewhat a revolute. Canon, near Lawrence Fork, 3.Co., July 9.
- June 26; Near Lawrence Fork, B.Co., July 3.
- 865. Croton Texensis, Mill. Sand: Lawrence Fork, B.Co., July 2; A Rush Creek, D.Co., July 2; Poiter, Ch.Co., August 1:

TRUICACEAE.

- 364. Celtis occidentalis, L. Not uncommon in canons and near water. In some, rocky places it becomes only a small tree, with narrow leaves and smooth, not corky bark. Sidney, Ch. Co., August 16.
- 335. Urtica gracilis, Ait. Common throughout the state. Canon, near Big Horn, B. Co., August 10.
- 366. Parietaria Pensylvanica, Muhlenberg. Shady places: Curtis, Frontier Co., June 22; Lawrence Fork, B.Co., July 9.

PLATAHACHAL.

seeds) on the banks of Platte River in Kearney Co. It has been reported from only the very S.E. Corner of Nebraska. July 25.

SALICIN AT.

- 568. Salix Longifelia, Muhl. A very variable species, Common. Lawrence Fork, July 9; On Platte Bottom, near Horse Creek, August 1; and in Mitchel Valley, S.B. Co., August 2; Kimball, August 12; Sidney, at Lodge Pole Creek, August 18.
- 369. Salix longifolia, Muhl. var. Leaves shorter, -mate female aments short, capsule short, ovate. Only a small bush, very often monoecious. Platte, Kearney Co., June 15; Canon, Fren Gospor Co., June 20; Carter Canon, S.B.Co., July 26; Morse Crock, August 1.
- 370. Salix longifolia, Muhl. var. . . (?). . Stem blue. Carter Canon,
- 371. Salix cordata, Muhl. var. vestita, And. Lawrence Fork, B.Co., July 8; Carter Canon S.F.Co. July 26. Heither flowers nor fruit son.

angust of ohia fames: The difficulty probably due to mature leaves while in the band we generally get them young. in Scott's Bluff County, I saw at a distance some dark green trees with pyramidal crown. Not knowing any other tre with dark foliage and pointed top, growing in the region, I took it for unusually tall specimens of Juniperus Virginiana. Coming a little nearer I saw my mistake. It was a Populus, unlike all I have seen. As the buds were very balsamiferous and the leaves cuneate at the base, I thought it was nothing but P. angustifolia, which I have never seen growing. When at home, I compared it with my specimens of this poplar, collected by Mr. A.T. Williams in the Hat Creek Basin in north-eastern Nebraska, and I saw at once the difference between the two. Although the leaves of my poplar are rhomboid ovate, cuncate at the base, and not whitened beneath, do I believe, that, if not distinct from both, it is a variety of P. balsamifera rather than of P. angustifolia. The leaves are phomboid, on petioles 1-2 inches long (in P. angustifolia, they are only 1/2-1 inch), generally long acuminate, shining on both sides, regularly crenate except at the cuneate base. The teeth are larger, more distant, and more regular than in P. angustifolia. Dr. Bessiy states that the general . appearance of the true P. angustifolia is more that of a willow than that of a poplar, which is not at all the case with this. The general growth, the size, form, and color of the trunk were somewhat between those of P. balsamifera and P. angulata, although most like the former. In long and slendor petioles reminded of the latter or even of the Quaking Aspen. Dr. S. Watson sais in his Revision about P. angustifolia: "Two forms are spoken of, the Yellow Cotton Wood, making fair lumber, and the Black Cotton Wood, Common and extensively planted in Utah, but the wood is considered worthless." Maybe this is the former. I saw it growing only at one place, viz. in Carter canon, where it grew along the brook, together with P. angulata. The grove contained over 100 trees of this poplar, from 40 to 60 feet high, some measuring 18 inches in diameter. - Carter Canon, St. B.Co., July 26.

TRIDACHAD.

373. Sisyrinchium acops, Cav. - Near a spring, south of Pumpkin Seed Valley, B. Co., July S. New to Mebrasha,

S74. Allium ticulatum, Fraser. - It is not recorded in Webber's Catalogue. I found it growing at several places on the prairies? It was out of bloom and only a few specimens were collect d. - Prairie in Dewel Co., June 25.

375. Yucca angustifolia, Pursh. - On the hills of Western Hebraska: - Canon in Gosper Co., June 20; Scott's Bluff, July 25.

276 Pritellaria apro-purpurea, Mutt. - In fruit only, near Scott's Eluff, July 25.

Caltiche Det JUNGACHAI.

1778. Juneus filiformis, L. (?). - Horth Platte River, Ch. Co., July 3.

379. Juneus tenuis, Willd. - Wet prairie, Kearney Co., June 10; -Pumpkin Seed Valley, B. Co., July 16.

379b, is a variety with channeled leaves, lax panicle, and very long bracts. - Pumpkin Seed Valley, B. Co., July 6.

- 380. Juneus bufonius, L. It is not given in Webber's Catalogue, but has been collected in Hebracka before, and by me in 1890, ----North Platte River, Ch. 60., July 3; Carter Comon, S. B. Co., July 23; Canon near Big Horn, B. Co. August 8.
- 381. Juneus nodosus, L. var. megacephalus, Forr. Platte River, near Horse Crack, S.R. Co. August 1.

TIPLACIA:

- 383. Typha latifolia, b. In Lodge Pole Creek, east of Potter, Ch. Co., August 17.
- 384. Sparganium eurycarpum, Eng. The leaves befor dry were nearly triangular .- In Lodge Pole Creek, east of Potter, Ch. Co. August 17.

LIMMAGHAE.

- 305. Lemna minor, L. Lawrence Fork, B. Co., July 10.
- ISS. Lenna porpusilla, Terr. (?). It might be a variety of L. minor, due to the condition of the water, in which it grew. The frond is oblong with distinct, althogh not prominent nerves. The root is slender up to 2 inches long. - Spring near Horse Creek, S.B.Co. August 1.

ALIEMACEAL.

- 307. Alisma Plantago, L. var. Americana, Gray. Low ground, Mitchelk Valley, S.B. Co., Argust 4.
- 588. Sagittaria variabilis, Eng. Pumpkin Seed Creek, B. Co. July 16; Horse Creek, S. B. Co., August 1.

MAJADACEAT.

- 389. Zannichellia palustris, L. Lawrence Fork, in the creek, B.Co, July 11.
- 390. Triglochin maritima, L. Low ground: Platte River, Kearney Co., June 15; Pumpkin Seed Valley, B.Co., July 17.

CYPERACEAE.

- 391. Cyperus aristatus, Rottb. Sands of Platte River near Horse Creek, S. B. Co., August 1.
- 392. Cyperus Schweinitzii, Torr. Wet prairies: Kearney Co., June 15; Dewel Co., June 25.

- 393. Scirrus pungens, Vahl. The culm has often only one spikelet. - Lawrence Fork, B. Co., July C.
 - 304. Scirpus lacustris, L. Canon, Kiwa Valley, S.B. Co., July 30.
 - 395. Scirpus maritimus, L. Platte River, Kearney Co., June 15.
- 396. Scirpus atrovirens, Muhl. var. pallidas, Britton. Low Ground, Kiva Valley, S.B.Co., July 30.
- 397. Eliocharis acicularis, P.Br. Wet prairie, Dewel Co., June 27; Lodge Pole, Ch.Co., August 18.
- echenes obcvate, muricate. It might be a variety of N. compressus, Which has not been collected in Nebraska, but the achenes are not strictly triangular, although a little thickened on the back. Dr. 2 Britton mentions in his Povision, that specimens of H. palustris with flattened culm have been collected in Mo.-Texas. This is not E. palustris, at least not F. palustis of Murope. - Wet prairie, Kearney Co., June 13.
- 390. Fimbristylis spadices, Vahl. var. castanes, Gray. It is not given in Webber's Catalogue, but was collected in 1889 by Nev. Bates of Valentine, Neb. - Scott's Bluff, July 23; Neur Horse Creek, S. B. Co., August 1...
- 100. Carox sp. "Missis is named "Nissor Hoads", "Bunch Grass", "Wille Grass", &c. The first two names it recieved, because it grows im very dense, hard bufts; the last, bucause its fine roots are black and, when dry, tough as wire. The ground on which it grows is regarded as the best, but it is very hard to brake on account of the tufts, which do not not for several years. It was out of bloom, when I reached Vestern Nebraska. Only one specimen was secured. I have not determined to which species it belongs. This is also the case with all my collection of the genus Carex. I have not classified a single American Carex. Supposing them as hard as the European ones, I leave them undetermined .- Prairie, Dewel Co., June 25.

 - 401. Carex. marida Boutt, von delili Baile.

 Prelimie, Dewel Co., June 27.

 102. Carex. from de Bailey. Wet prairie, Kearney Co., June 13. Stuhlenbergis Schkuler.
 - 103. Carex gravida Baily. Wet prairie, Kearn 7 Co., June 13.
 - 404. Carex frihformik. Lawrence Fork, B. Co., July 10. and " stricta Lans, Jamesis Por
- GIMINIA. / 405. Panieum capillare, L. - Hill, Kiwa Valley, S.D. Co., July 30; -Sidney, Ch. Co., August 18.
- 200. Panicum virgatum, I. Preirie, near Horse Creek, S.B.Co., Aumust 1.
- 407. Panicum virgatum, L. var. confertum, Gray Vasev. Not repried for Nebraska. Lawrence Fork, B. Co., July 8. ---
- Sand-hills, Kearner Co., June 10. 400. Penicum scoparium, Lam. -

- / 403. Panio and dichesonum, L. var. barbilatin, (Michx.) Gray. Not re-
- In my bulieft, this is indigenious, as it was found in a canon, several miles from any habitation. Furthermore, the country in kkwa Kiva Valley has been end tivated vory limite under cultivation. In my specimens, the awns are short and the glumes hispid. Canon in Kiwa Valley, S.B.Co. July 28.
- Visouth of Potter, Ch. Co., August 13.
- Volume Cynoc proides, (L) Willd. Most water, Platte River, C.B.C., July 20; Horso Crook, August 1.

 Sperting cracilis was seen near Kimball.
- Ch.Co., Argust V.
- Tast of Potter, C. Co., Facust 10.
- discribed in the lebt edition of Grav's Lastalias being having lover smaths an increw leaves hairs. All Nebraska Specimens I have seen are wholly glab out an according all decomes. Have noe Fork, B.Co., July ; Big Hern, B.Co., August P; Jidney, C.Co., August 20; & accollican Canon, D.Co., August 25.
- Fork, B. Co., July lu; Cedar Camon, N. T. J. J. J. J. Kalle of Pottor, Ca. Co., Again 1.
- Fil. Chrysopoeen pasens, Bende. Coder Cesser, S. P. Co., July 19; Bir Springs, D. Co., Abrien 20.
- Mal. Pholonis Cantriens's, L. Minden, Kearmer Co., Jane 11.
- y dl. Phaleris arandinaces, L. Plane Tiver, Kaamer Co., dune la.
- / 420. Alegecarus game latus, J. Hen preinte, Deret Co., Junion.
- / 101. Alegae rase saistules a, Miela. Carter Cenon, J. J. Co. J. dv a.
- Ass. Aristiae Physica, Fitt. Fills: Cordas, Francis: Co., Joseph R.; Rick Valler, L.D.C., Jole De: Sidn , A gast L.
- of Pabraska; but I can now find and description. Sund-hills of Magrana Co., Jure 1.
- in the Tuur. San Alls of Realmer Co., June 17, Profese: Porkins Co., June 8; Devel C., June 17.
- Accelling Cart, 1.0., Journell; Term Plants, C..., July 1.
- (Marion of the state of the sta

- suil. Larr no Pork, R. Co., July 8.
- 427. O<u>rvzensis cuspidata</u>, Benth. The most beautiful grassin Nebraska. Not unecommon west. - McColligan Canon, D.Co., June 20; Bush Greek, D.Co. Juky 2; Platte River, Ch.Co., July 2.
- 1238. Mublinbergia / B.S.P. Lodge Pole near Sidney, Aug. 19.
- 429. Withlenbergia puncens, "hurb. It is called "Sand Grass" in Kearney Co. Sand-hills of Kearney Co., June 10; In the "Bad Lands, north of Scott's Bloff, July 24.
- / 430. Sporebulus cuspidatus, Toom. Mills: Bir Lorn, P. vo., August :
 - and on the special states of S. caspidatus, although the lower flunes are only alfathed from of the upper. Hills: Freeport, S.Co., Jaly 10; Biggorn, August S.
- $\sqrt{430}$. Specchilis crypten $J_{\rm PLS}({\rm Prin})$ Gr. Platts Diver, Kearney Co., June 15; NeCollisan Canar, D. Co., June 30; Potter, Gr. Co., Alexand 1.
- Ch.Co., July 3; Pumpkin Seed Valley, B.Co., July 13; Horse Grock, S. B.Co., August 1; Sidney, August 1;
- / =30. Sporobilus asperifoliss. & M. Crter Canon, S. B. Co. Jaly Bo.
- of a Sporobilia, indulbily of the named. Sands of Platte River, near Horse Creek, S.B.Co., Alcast 1.
- 437. Agrostia alba, L. The "Red-top" in the East regarded as one of the best grasses for hay, is regarded by western stockmen nearly as good for nothing. Platte River, near Horse Creek, S.R.Co. Aug. 1.
- 130. Calamagrostis lengifolia, Flook. Low ground: Pumpkin Seed Valley, B.Co., July 16; Cart r Canon, July 25; lear Platte, July 25; & Fear Florse Creek, August L.
- # 439. <u>Calamagrostis Canadensis</u>, Michx. Platte Fiver in Klarmey Co. June la.
- 440. Calamagrostis stricts, Trin. Platte River, Chevenne Co., July 3; Scott's Blaff Co/, July 84.
- Platte Piver, Kearney Co., June 15.
- 448. Avena clatior. New to Nebraska. Lincoln, June 18.
- 1443. Schedonardus Texanus, Stend. Platte River, Ch. co., July 5; North of Kimball, August 12.
- rage plant of the high plains, and furnishes good pasturage even in the winter. Rush Creek, D.Co., July 3.

- 145. Boutelous kirsuts, Lag. Hills: Lawrence Fork, 5.00., July 9; Upper Lawrence Fork, K.Co., August 12.
- 416. Boutelous racemoss, Lag. Fills: Rush Creek, B.Co., July 3.
- disappearing from a stern Nebraska, But is jet one of the principal grasses of the high plains. Phelps Co., June 15; Kearney Co., June 15.
- / 448. Phracmites communis, Trin. Platte, near Horse Creek, N. B. Co., August 1.
- 149. Munroa squarrosa, Toor. Frequents the "Prairie Nos Towns." Sand, Bush Creek, D.Co., July 2; Big Forn, B.Co., August 6.
- 450. <u>Rogleria cristata</u>, Pers. Low specimens from the prairies of Kearney Co., June 15; Dewel Co., June 25.
- Co., June 25.
- 452. <u>Batonia obtasata</u>, Gray. A Prairies, Wild Cat Mts., B.Co. July & 16; North of Scott's Bluff, July 23.
- Abs. Eatonia Spine. The specimens are not fully developed. The leaves are broad (3-4 lines), lighter conspictors, truncate, toothed and divided, the spike is more corpound, with longer, more open branches; spikelets, and the whole plant more robust than E. obtusate, fich it otherwise resembles. Canon in Kiva Vallev, S.B. Co., July 2.
- 104. Catabrosa quatica,(L) neuv. Lodge Pole, near Sidney, Aug. 19
- 455. <u>Distichlis Dicata, Green. ver Sticts</u>, Thurber. Salt marshes, R.R.Bank, Cartis, Frontier Co., June 22; Platte River, Ch. Co., July 5; Big Horn, B. Co., August 6.
 - 456. Poa alpina, L. It is not given in Webber's Cat logue, but was collected, in 1889, by A.T. Williams in War Bonnet Canon. McColligan Canon, D.Co., June 26.
- scription of this species, but it is not densely tufted; the panicle is rather leese; the rays are not distant, spreading. It is not uncommon on low land. Kearney Co., June 15; Chevenne Co. July 3.
- 458. <u>Poa Nevadensis</u>,(?). This grows on dryer soil and is more tufted than the preceding. Lawrence Fork, B.co., July 8.
- 459. Glyceria distans, (L) Wahl. Lodge Pole, near Sidney, Aug. 19.
- 460. Glyceria nervata, Trin. Longe Pole nea Potter, Ch. 60% Aug. 18.
- 461. <u>Alvebria sp. ...</u> . . . Only a few undevelloped specimens / were collected in Lawrence Fork, B.Co., July 9. It seems to be somewhat near G. obtusa, but the panicle is smaller, more open, and the glumes more acute.
- A 432. Festuca tenella, Willd. Sand-bills, Kosmey Co., June 13; Phelps Co., June 18; ills, Devel Co., June 95.

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- Similes prointed. This is the most common form. Leavestonk, B.Co., July 6; Prainte, Plans, Plans

- ves involute, glumes cuspidate or awned. McGollican Canon, Moder, July 25; Pumpkin Seed Valley, 2.06. July 6; Carter Canon, M.Co., July 25.
- Velute, setacious, clumes blumt. Pumpkir Seed valler, July 15.
- 170. Acropyrum tenerum, Vasev. var. Tlendor, leaves broader, flat; glumes cuspidate or awned. Lawrance Fork, P. C., July 8; Canon in Pumpkin Seed Valley, July 8; Carter Canon, S. Co., July 35.
- 471. Acrepyrum temerum, Vasav. var. . . It seems to be a luxurions form of A. tenerum, near the last, but with much larger spikelets, connecting it with the broad leaved forms of A. elaucum. Scots Blaff, July 24.
- 10gue, although it has been collected at s-veral places in Nebraska. It seems to be not very undommon, but is spetimes confounded with S.B.Co., August 4.
- 474. I miperus Virginiana, L. var. The Ted Cedar of Fasts ern Nebraska is a good sized tree, with conical crown, with the branches from near the cround. The leaves are, as is ally, of two kinds, viz. on the younger branches awlshaped, and on the older iriangular in outline, but generally lenger than broad. The Fed Cede ar of the low-lands and canons of Western Webraska differs not ma-

terially from the eastern form, but on the Vild Cat hountains and other cracs in Farmer an Scott's Sliff Counties, there grew a low. scracly tree, about 12-18 feet high, with wounded top, and the stem free from bringles below. The color of the trunk was bright red as in Pinus resinosa, and that of the branches gravish. The branchlets were 4- andled, crouded with very small, broadly triangular leaves, which are about as broad as long, resembling more those of J. Sabina ver. procumbers. I can not remember that I saw any awlshaped leaves at all. The berries are on streight pedancles as in . Tirgimians, but smaller, scarsely 2 lines in diameter, with /2 anched and gracked speck. Engelman states that among the foot bills of Pikes Peak, the trees of J. Virginian have the size and shape of an apple tree, with a rounder, spreading top. W. Bessey remarks that Mg also was struck by this peculiar form of the Red Cears at Maniton. Col., which is not very far from Pike's Teak. Ilis is into bt-17 the same variety. The Ped Cedars of the North Platte Coción Maye also attracted the autombion of Mebraska nurserymen, to which fact Dr. Bessey refers in his list of Trees and Shrubs of Febrasia.

POFFS TACRAT.

F470. Tariset in limes in, L. var. - This has semetiles been hamed T. Laevicatin, as the branches are very few and sometimes home. The teck it at first few for robustim or biemale, but it lacks the black girdle. - Flatte Tiver, Keerney Co., I re lo.

476. <u>Caticatum lasvičetum</u>, Traum. - Tetapesieie, Economov Co. Tracel3

FILICIS.

478. Assidium Thelupteris, (T, T) Sv. - Fronds only in a grassy marsh near Platte Tiver, Kenney (x), aure 15.

109. Peilanthes langrings, Matt. - It is not given in Webber's Catalogue, but has been collected before in Mebraska, and by me in 1930. - On exposed rocks, near Rig Lorn, R.Co., August.